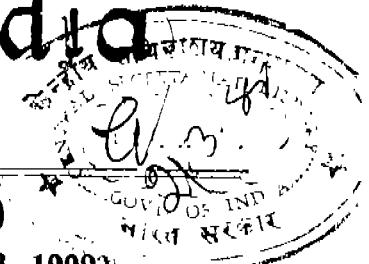




भारत का राजपत्र

The Gazette of India

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No. 4] NEW DELHI, SATURDAY, JANUARY 23, 1988 (MAGHA 3, 1909)

इस भाग में भिन्न पृष्ठ संख्या ही आती है जिससे कि यह असग संकलन के रूप में रखा जा सके।

(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी को गई पेटेंटों और डिजाइनों से सम्बन्धित अधिप्रबन्ध और नोटिस

[Notifications and Notices issued by the Patent Office Relating to Patents and Designs]

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Calcutta, the 23rd January, 1988

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CORRIGENDUM

In the Gazette of India, Part III, Section 2, dated the 27th June, 1987 under the heading Complete Specification Accepted at page 673 in respect of Patent No. 160123—Read Applicant's name as "DR. WERNER FREYBERG CHEMISCHE FABRIK DELITIA NACHF".

For "DR. WERNER FREYBERG CHEMISCHE FABRIK, OF DELITIA NACHF".

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 214, ACHARYA JAGADISH BOSE ROAD,

CALCUTTA-700 017

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

The 17th December, 1987

981/Cal/87. Debabrata Narayan Chowdhury. Purifying Apparatus for Gas and Air from dust and air-borne suspended particulate matters.

982/Cal/87. Istituto Guido Donegani S.p.A. "N-(2, 6-Difluorobenzoyl)-N'-3-Chloro-4-[1, 1, 2-Trifluoro-2-(Trifluoromethoxy) Ethoxy] Phenyl urea having insecticide activity.

983/Cal/87. Opytno-Experimentalny Zavod Polimernykhizdely. Process for preparing rubber powder from natural or synthetic rubber.

984/Cal/87. Vanagala Pattabhi. Improvements in or relating to cast iron detachable joints for joining pipes particularly pressure pipes like fibre cement pipes, cast iron pipes and the like.

985/Cal/87. The Mead Corporation. Panel Interlocking Arrangement.

986/Cal/87. Lamerie, N.V. Gold plating solutions, creams and baths.

The 18th December, 1987

987/Cal/87. Michigan Consolidated Gas Company. A fueling module for supplying natural gas to a natural gas fueled torch apparatus. (Divided out of No. 88/Cal/86 of 7th Feb. 86).

The 21st December, 1987

988/Cal/87. Westinghouse Electric Corporation. Circuit Breaker with magnetic shunt hold back circuit.

989/Cal/87. The Babcock & Wilcox Company. Autoacceleration control for exothermic reactors.

990/Cal/87. Indupack AG. A process for filtering a heat-softened plastics material, and a filtering device for extrusion apparatus for executing the process.

991/Cal/87. Tidco Group Limited. Jaw crushing apparatus.

APPLICATION FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, IIIRD FLOOR, KAROL BAGH, NEW DELHI-110 005

The 16th November, 1987

975/Del/87. Bharat Heavy Electricals Ltd., "Seamless expander".

976/Del/87. John Lysaght (Australia) Ltd., "Stripping excess coating from moving strip materials".

977/Del/87. Uniroyal Chemical Company, Inc., "Moisture-curable low molecular weight polymers and compositions and composites thereof".

978/Del/87. The B.F. Goodrich Company., "Treatment of aqueous medium with copolymers containing acrylamidoalkane sulfonic acid".

The 17th November, 1987

979/Del/87. Om Shiv Sharma. "A craft which can fly like a helicopter even in vacuum".

980/Del/87. Bharat Heavy Electricals Ltd., "A process for the manufacture of magnetic laminates"

981/Del/87. Dimension Technologies, Inc., "Autostereoscopic display with illuminating lines and light valve".

982/Del/87. Amoco Corporation, "Process for overbased petroleum oxidate".

983/Del/87. Piaggio & C.S.p.A. "Apparatus for enriching the mixture in internal combustion engines equipped with carburettor".

984/Del/87. Zone Technology Pty. Ltd., "Digital image acquisition system".

985/Del/87. Council of Scientific and Industrial Research, "An improved process for the conversion of natural gas into middle distillates".

986/Del/87. Council of Scientific and Industrial Research, "A process for the preparation of an antibody highly specific to estradiol".

987/Del/87. Council of Scientific and Industrial Research, "An improved process for the preparation of copper phthalocyanin blue".

The 18th November, 1987

988/Del/87. Council of Scientific and Industrial Research, "A process for the preparation of a formulation for field testing of iodine in iodated salt".

989/Del/87. Council of Scientific and Industrial Research, "An electrochemical monitor for mercury determination".

990/Del/87. Council of Scientific and Industrial Research, "A process for the synthesis of a high silica zeolite of pentasil family from paddy husk ash".

991/Del/87. Council of Scientific and Industrial Research, "An improved process for the preparation of chloramphenicol 2,2-Dichloro-N(2-hydroxy-1-(Hydroxymethyl)-2-(4-nitrophenyl) ethyl acetamide".

992/Del/87. Stein Industrie, "Method of repairing or protecting an end of a metal tube in a heat exchanger and sleeve for implementing same".

993/Del/87. Coal Industry (Patents) Limited, "End castings for conveyor line pans". [Convention date 2nd December, 1986 (U.K.)]

994/Del/87. Jatinder Kumar Chaudhry, "An air cooler".

995/Del/87. Jagdish Rai Chhabra, "A device for use with an internal combustion engine".

The 19th November, 1987

996/Del/87. National Council for Cement and Building Materials, "A system for use in a vertical shaft kiln".

997/Del/87. Courtaulds Packaging Australia Ltd., "Aseptic filling machine". [Convention date 21st November 1986 (Australia)].

The 20th November, 1987

998/Del/87. Rashmi Johri, "Device combining trickling filter and aeration process by using hollow packings in a rotating drum".

999/Del/87. Miner Enterprises, Inc., "Split wedge draft gear with center friction plate".

1000/Del/87. Dresser Industries, Inc., "Method and apparatus for braking heavy vehicles".

The 25th November 1987

1001/Del/87. Smiths Industries Public Ltd. Co., "Optical radiation sensor apparatus". [Convention date 10th December, 1986 (U.K.)].

1002/Del/87. BRG Mechatronikai Vallalat, "Method for charging nickel cadmium batteries and circuit arrangement for carrying out the method".

1003/Del/87. Exxon Research and Engineering Company, "Middle distillate compositions with improved cold flow properties". [Convention date 21st February, 1984 and 10th August 1984 (U.K.) & [Divisional date 18th February, 1985].

The 24th November 1987

1004/Del/87. Warner Lambert Company, "Blade assembly featuring variable span".

1005/Del/87. Energy Conversion Devices, Inc., "Activated rechargeable hydrogen storage electrode and method".

The 25th November 1987

1006/Del/87. Anthony Leon Stephens, "Dispensing apparatus". [Conversion date 1st December, 1986 (Australia)].

1007/Del/87. Courtaulds Packaging Australia Ltd., "Forming small flexible containers". [Convention date 27th November, 1986 & 3rd March, 1987 (Australia)].

1008/Del/87. Mobil Oil Corporation, "Improved process for lowering pour and cloud points of hydrocracked lube oils".

The 26th November 1987

1009/Del/87. Aditya Gupta, "A temper proof seal for general purposes". [Addition to Patent Application No. 886/Del/87 dt. 9-10-87].

1010/Del/87. Edwin Des Snead, "Improved apparatus for weighing rolling railcars".

1011/Del/87. Colgate Palmolive Company, "Wash cycle additive antistatic composition".

The 27th November 1987

1012/Del/87. Exxon Chemical Patents, Inc., "Copolymers of ethylene and 1, 3-butadiene".

1013/Del/87. Exxon Chemical Patents, Inc., "Ethylene copolymers".

1014/Del/87. The Lubrizol Corporation, "Dioxolanes and thio analogs, derivatives therof and lubricants and fuels containing same".

1015/Del/87. Exxon Chemical Patents, Inc., "Unsaturated ethylene polymers".

APPLICATIONS FOR PATENTS FILED AT THE
PATENT OFFICE BRANCH, 61, WALLAJAH ROAD,
MADRAS-600 002.

The 30th November 1987

856/Mas/87. Dr. K. V. Reddy, Prof. K. R. Babu & Dr. V. Ganesan, "Fuel saving in two-stroke spark ignition engines—a novel technique in the scavenging process".

857/Mas/87. The South India Textile Research Association, "Linear Profiled cam systems for operating the new loop forming elements to be applied on west knitting machinery for the conversion of yarns into fabrics".

858/Mas/87. MAG DEV INC. Magnetoclastic torque transducer.

The 1st December 1987

859/Mas/87. Prakash Jyothiprasad Mehta & Salem Resources Private Ltd. A process and apparatus for the production of sponge iron.

860/Mas/87. The Enfield India Limited. A device for reducing the CO emission from the exhaust of automobile engines.

861/Mas/87. The Dow Chemical Company. A composite membrane/electrode structure having interconnected roadways of catalytically active particles.

862/Mas/87. The Dow Chemical Company. A composite membrane/electrode structure having islands of catalytically active particles.

863/Mas/87. AB Akerlund & Rausing. A device for accomplishing at least a liquid tight joint and a method for manufacturing such a device.

864/Mas/87. American Standard Inc. Handbrake mechanism for single-cylinder, truck-mounted railway car brake assembly.

865/Mas/87. Robert Bosch GmbH. An electric starter motor for an internal combustion engine.

The 2nd December 1987

866/Mas/87. Balasubranyam Viswanath & Mandayam Ammanji Srishaila. A device for dispersing fluids from, and filling fluids into, barrels and like containers.

867/Mas/87. Merlin Gerin. Static converter, especially for an uninterruptible electrical power supply system.

868/Mas/87. Palitex Project-Company GmbH. Mechanism for the transportation of packages out of or into multiposition spinning or multiposition twisting machines.

869/Mas/87. "Hungaria" Maunyagsfeldolgozo Vallalat & Melyepitesi Tervezo Vallalat Plastics elements for lordinate film-flow packings. (August 3, 1987; Great Britain).

870/Mas/87. Air Products and Chemicals, Inc. Polytrialkylgermylpropyne polymers and membranes.

The 3rd December 1987

871/Mas/87. Man Gutehoppnungshutte GmbH. A device for aerating liquids. (November 24, 1987; Canada).

872/Mas/87. GH International Limited. Rail Clip Assembly. (December 17, 1986; Great Britain).

873/Mas/87. Stauffer Chemical Company. Synergistic herbicide compositions and method of application.

874/Mas/87. Enichem Fibre S.p.A. Improved modacrylic fibre, endowed with characteristics of reduced flammability.

The 4th December 1987

875/Mas/87. Madavan Parthasarathy. Improvements in or relating to refrigeration systems.

876/Mas/87. Narayanaswami Palani. Methane producing burners.

COMPLETE SPECIFICATION ACCEPTED

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CLASS : 157-A₄ 161711

Int. Cl. : E 01 b 7/10.

A METHOD OF PRODUCING IMPROVED ACUTE ANGLE RAIL-ROAD FROGS OF HIGH-MANGANESE STEEL FOR RAIL-ROAD SWITCHES.

Applicant : VSESOUJZNY NAUCHNO-ISSLEDOVATELSKY INSTITUT ZHELEZNODOR-OZHNOGO TRANSPORTA, ULITSA 3-YA MYTISCHINSKAYA, 10 MOSCOW, USSR.

Inventors : 1. ROMAN ZAKHAROVICH KATS, 2. NIKOLAI NIKITOVICh PUTRYA, 3. KONSTANTIN IVANOVICH KRASIKOV, 4. ANDREI ANDREEVICH DERIBAS, 5. TATYANA MAXIMOVNA SOBOLENKO, 6. VLADIMIR ALEXANDROVICH PRYAKHIN, 7. ALEXANDR VASILEVICH VODYANOV, 8. ALEXANDR GRIGORIEVICH TSARENKO, 9. EVGENY EVGENIEVICH ZUBKOV.

Application No. 1058/Cal/83 filed August 31, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A method of producing improved acute angle railroad frogs of high-manganese steel for railroad switches, wherein the cast portion of said frog is subjected to explosive hardening, characterised in that a charge of sheet explosive is placed on the roll surface and side surfaces of a core and guard rails of this cast portion in the area where train wheels roll on said elements of the frog, and the charge is detonated to attack said surfaces by a slanted detonation wave front with a pressure of 40.10^{-8} to 250.10^{-8} pa to act on said surfaces during 1.10^{-6} to 1.10^{-6} sec.

Compl. specn. 27 pages.

Drg. 1 sheet

CLASS : 48-A₄ 161712

Int. Cl. : H 01 v 1/30.

ASSEMBLY CUM-HEAT SINK FOR SEMICONDUCTOR DEVICES.

Applicant : WESTINGHOUSE PLECTRIC CORPORATION, OF WESTINGHOUSE BUILDING GATEWAY CENTRE, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : 1. KENNETH GERARD LONGENFCKER, 2. THOMAS BOYD GEARY.

Application No. 1153/Cal/83 filed September 21, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

An assembly cum-heat sink for semiconductor devices comprising, a metal body forming a cavity having a circular cross-section for receiving semiconductor fusions and compression means, a plurality of metal cylindrical members disposed within said cavity between adjacent cylindrical members, and compression means holding said semiconductor fusions in an electrical and thermal conductive relationship with said adjacent metal cylindrical members, insulation for electrically insulating said cylindrical members and said fusion from said body, and circuitry for making electrical contact to said semiconductor fusions.

Compl. Specn. 16 pages.

Drg. 5 sheets.

CLASS : 39-M

161713

Int. Cl. : C 07 f 5/06.

A PROCESS FOR THE PREPARATION OF NOVEL ALUMINIUM-N-PHOSPHONOMETHYL-GLYCINE COMPOUND.

Applicant : STAUFFER CHEMICAL COMPANY, OF WESTPORT, CONNECTICUT 06881, U.S.A.

Inventor : MICHAEL PAUL PRISBYLLA.

Application No. 1400/Cal/83 filed November 16, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A process for the preparation of aluminium-N-phosphonomethylglycine compound, wherein the molar ratio of aluminum to acid is substantially 1 to 4, comprising (a) contacting an aluminum cation forming compound with N-phosphonomethylglycine acid in the presence of water, (b) heating the aqueous reaction mixture of step (a) at reflux temperature for predetermined time and thereafter isolating the final product in the usual manner of cooling, filtering and concentrating; and, if necessary, mixing the final product with a known type of inert diluent carrier to render it readily dispersible.

Compl. Spec. 17 pages.

Drg. Nil

CLASS : 98-H.

161714

Int. Cl. : G 05 d 23/00.

AN ARRANGEMENT FOR THE OPTIMIZED CONTROL OF CHILLED WATER TEMPERATURE.

Applicant : THE BABCOCK & WILCOX COMPANY, OF 1010 COMMON STREET, P.O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventors : 1. AZMI KAYA, 2. MICHAEL SCOTT WILEY.

Application No. 153/Cal/84 filed March 5, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

An arrangement for the optimized control of chilled water temperature supplied to at least one process by pump means, the water being chilled by coolant in a coolant cycle having compressor means and load valve means, comprising :

a first temperature sensor for sensing a supply a supply temperature of the water to the process;

a second temperature sensor for sensing a return temperature of water from the process;

work determining means connected to the pump and compressor means for determining a total amount of work needed to chill and supply water to the process;

supervisory control means connected to said first and second temperature sensors and said work determining means for generating a reference temperature which is a function of supply temperature and the ratio $\Delta W / \Delta T$ where ΔW is a change in the total amount of work with time and ΔT is a change in the difference between supply and return temperature, the reference temperature being equal to the supply temperature when the ratio is approximately zero, being less than the supply temperature when the ratio is negative and being more than the supply temperature when the ratio is positive; and

temperature control means connected to said supervisory control means for receiving the reference temperature, said temperature control means being connected to said first temperature sensor for receiving the supply temperature, to the process for receiving a demand value and to the load valve means, for controlling the load value means according to a load demand signal which corresponds to the difference between the supply temperature and the lowest of the reference temperature and the demand value.

Compl. Specn. 17 pages.

Drg. 4 sheets.

CLASS : 65-B.

161715

Int. Cl. II 01 f 3/00.

THREE PHASE CORE FORM TRANSFORMERS.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : PAUL GEORGE NOVAK, 2. THEODORE RICHARD SPECHT.

Application No. 320/Cal/84 filed May 10, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A three phase core form transformer, comprising a three legged magnetic core, a plurality of primary windings corresponding to the phases, two auxiliary secondary windings per phase, wound to provide first and second common bifilar portions, a plurality of principal secondary windings corresponding to the number of primary windings, the first common bifilar portion, the principal secondary winding, the second common bifilar portion, and the primary winding being coaxial and radially adjacent, in the recited order, starting from each leg of the magnetic core, the primary windings being connected in delta, the principal secondary windings and auxiliary secondary windings being connected in a forked wye in which one auxiliary secondary winding of each of the other two phases is electrically connected to a free end of each of the wye connected principal secondary windings resulting in all three phases being present in each combination of principal secondary windings and auxiliary secondary windings, so that the leakage reactance of the principal secondary winding and the common leakage reactance of the auxiliary secondary windings attached thereto for each phase are positive in value with the leakage reactance of the principal secondary winding being about twice that of the common leakage reactance of the auxiliary windings.

Compl. Specn. 22 pages.

Drg. 5 sheets.

CLASS : 32-E.

161716

Int. Cl. C 08 f 47/00.

A METHOD OF PREPARING A RESINOUS DISPERSION FOR THE TACKIFICATION OF ELASTOMERIC LATTICES.

Applicant : SYLVACHEM CORPORATION, AT 200 SOUTH SUDDUTH PLACE, PANAMA CITY, FLORIDA 32404, UNITED STATES OF AMERICA.

Inventors : 1. CARLOS G. CARDENAS, 2. WILLIAM J. EHMAN, 3. JAMES M. EVANS, 4. CHARLES J. STARK.

Application No. 321/Cal/84 filed May 10, 1984.

2-427 GI/87

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

A method of preparation of a resinous dispersion useful for the tackification of elastomeric latices which includes the steps of (a) forming a resinous hydrocarbon polymer by polymerizing a C5-C20 olefin or a mixture comprising C5-C20 olefins in the presence of an acid catalyst, (b) reacting the resultant hydrocarbon polymer with an alpha-beta-unsaturated carboxylic acid, carboxylic acid anhydride, or a lower alkyl half ester of a dicarboxylic acid and optionally esterifying the product thereof with an aliphatic or aralkyl alcohol (c) neutralizing with a base which is a volatile ionizing agent and (d) mixing with water whereby a stable dispersion compatible with said elastomeric latices is obtained.

Compl. Specn. 32 pages.

Drg. Nil

CLASS : 6-B.; 40-F.

161717

Int. Cl. : B 01 d 53/00.

AN APPARATUS FOR REMOVING ETHYLENE OXIDE FROM A GASEOUS STREAM.

Applicant : JOHNSON & JOHNSON, OF ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ 08933, UNITED STATES OF AMERICA.

Inventors : 1. MIRON POPESCU, 2. EDWARD K. GUN-SALUS.

Application No. 345/Cal/84 filed May 18, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

An apparatus for removing ethylene oxide from a gaseous stream comprising :

a vessel containing an aqueous acid solution, said solution having a normally ranging from 0.35 to 1.5;

said vessel comprising a gas diffusion means submerged in said solution;

means for continuously introducing said gaseous stream into said acid solution by diffusing said gas through said gas diffusion means;

the diffusion means being adapted to provide a pressure drop of the gas across the gas diffusion means controllable between 1 and 15 ml of mercury;

whereby said gas may be diffused in said diffusion means to a degree sufficient to result in at least 95% of said oxide which is introduced into said vessel being retained in the aqueous solution; and

means for continuously withdrawing undissolved gas from the vessel.

Compl. Specn. 15 pages.

Drg. 3 sheets

CLASS : 25-B & D.

161718

Int. Cl. : B 28 b 1/00. 3/00.

METHOD AND MACHINE FOR MANUFACTURING BRICKS OF COMPRESSED EARTH.

Applicant : SOCIETE ANONYME DE RECHERCHE ET D'ETUDES TECHNIQUES, OF ROUTE DE CARPENTRAS, 84130 LE PONTET, FRANCE.

Inventor : 1. ROBERT AUGIER.

Application No. 594/Cal/84 filed August 27, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 claims

A machine for manufacturing building bricks by agglomerating an earth-based material, of the type comprising a chamber of variable volume, feed means for feeding said chamber with said material and a piston capable of compressing the contents of said chambers by means of a hydraulic jack, wherein the machine comprises means for reducing the speed of the piston at the end of the compression stage.

Compl. Specn. 26 pages.

Dig 11 sheets

GLASS : 172-G & L

161719

Int. Cl. D 01 g 1 00, 5 00, 7 00

BALE OPENERS.

Applicant : TRUTZSCHLER GMBH & CO. KG., OF DUVENSTRASSE 82-92 D-4050 MONCHENGLADBACH 3, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. FRITZ HOSFL, 2. JOSEF JEMBURG.

Application No. 158 Cal 85 filed March 1, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A bale opener including a carriage arranged for back-and-forth travel along a plurality of serially arranged fiber bales, a tower mounted on the carriage; a cantilever supported on said tower and extending laterally therefrom, an opening device accommodated in said cantilever and arranged for removing fiber from bale tops, the improvement comprising

(a) sensor means mounted on said bale opener and arranged for generating first signals representing the presence of length boundaries of the bales;

(b) a measuring device generating second signals representing positions of said carriage during the back-and-forth travel thereof; and

(c) a control device operatively connected to said sensor means and said measuring device for receiving said first and second signals therefrom; said control device being connected to said bale opener to operate said bale opener as a function of said first and second signals.

Compl. Specn. 14 pages.

Dig 3 sheets

GLASS : 129-G & L

161720

Int. Cl. B 23 d 27/00.

ROTARY NIBBLER.

Applicant and Inventor : BRAIN ALAN BENNETT, OF 53 MORPHETT ROAD, CAMDEN PARK, STATE OF SOUTH AUSTRALIA.

Application No. 339/Cal, 85 filed May 3, 1985

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

A rotary nibbler comprising a body (11), a bearing sleeve (12) in the body having a bearing surface (13), a spindle (14) carried in said bearing sleeve for rotation within the body about a central axis, a first end (16) of the spindle having a drive engagement surface adjacent one end of the body, a second end (17) of the spindle projecting from the other end of the body and having surfaces (18, 19, 20) defining a helical groove (21) in the side wall of the spindle, one of said groove surfaces (18) defining, with that side wall a helical cutting edge, characterised by :

the bearing sleeve also having a flat workpiece engagement face (24) which defines, with the axis of rotation an angle which approximates the helix angle (A) of the groove, the bearing sleeve having a curved surface (27) contiguous with said spindle side wall and opening to the workpiece engagement face, defining therewith a cutting edge (26) fixed

with respect to the body and co-operable with said helical cutting edge upon rotation of the spindle.

Compl. Specn. 12 pages.

Dig. 2 sheets

C1 A95, 40B.

161721

Int. Cl. I B 01 f 11/00.

PROCESS FOR THE MANUFACTURE OF CATALYSTS FOR THE POLYMERIZATION OF ALPHA-OLEFINS.

Applicant : MONTEDISON S.p.A. OF 31, FORO BUONAPARTE MILANO, ITALY AND MITSUI PETRO-CHEMICAL INDUSTRIES LIMITED, OF KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : (1) ENRICO ALBIZZATI, (2) SANDRO PARODI (3) PHLR CAMILLO BARBE.

Application No. 157 Cal 83 filed February 10, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

Process for the manufacture of catalysts for the polymerization of alpha-olefins CH_2-CHR , wherein R is a C₁-C₄ alkyl or an aryl group, which comprises reacting the following compounds in a manner as described herein :

(a) a metallorganic Al compound e.g. an Al-alkyl compound,

(b) an electron-donor compound selected from the group of compounds having formula

R_m Si Y_n X_p

wherein

R is an alkyl, alkenyl, aryl, arylalkyl or cycloalkyl radical with 1-20 carbon atoms;

Y is a -OR, -OCOR' or -NR₂ radical in which R' is the same as or different from R, has the same meaning as R; X is a halogen or hydrogen atom or a -OCOR" or -NR₂" group in which R' is the same as or different from R', has the same meaning as R", m, n, p are numbers comprised : m from 0 to 3, n from 1 to 4 and p from 0 to 1; m+n+p is equal to 4;

and 2, 2, 6, 6-tetramethylpiperidine, 2, 5, 5, 5-tetramethylpyrrolidine, 2, 2, 6, 6-tetramethylpiperidine-Al-diethyl and Al-dichloro-monophenoxy which is reactive towards anhydrous MgCl₂ and which does not produce a completely complexed compound with Al-triethyl at the equivalent point of a potentiometric titration under standard conditions

(c) a solid comprising a Ti halide and an electron-donor compound both supported on a Mg halide, such electron-donor compound being selected from the classes of :

ethers, ketones, lactones and from the following esters :

(I) hydrocarbyl esters of linear saturated dicarboxylic acids containing from 2 to 5 C atoms,

(II) esters of unsaturated polycarboxylic acids, in which two carboxyl groups are linked to vicinal, double bond-forming carbon atoms and in which the hydrocarbyl radical or radicals of the COOR groups are linear saturated or unsaturated radicals or cycloaliphatic radicals with 1-20 C atoms or hydrocarbyl esters of unsaturated linear or branched polycarboxylic acids with 4-20 carbon atoms, in which the carboxyl groups are not linked to vicinal double bond-forming carbon atoms;

(III) hydrocarbyl esters of aromatic meta- and para-dicarboxylic acids and hydrocarbyl esters of aromatic polycarboxylic acids containing more than two carboxyl groups;

(IV) hydrocarbyl esters of aromatic hydroxy compounds containing the OH groups in meta- or para -position, and esters of aromatic hydroxy acids, the OH groups of which are in meta- or para-position with respect to the carboxyl group;

(V) esters RCOOR' the hydrocarbyl groups R and R' of which can be the same or different, are linear saturated or unsaturated radicals or cycloaliphatic radicals having from 1 to 20 carbon atoms, or R is an aryl, alkylaryl or cycloalkyl with 5-20 carbon atoms and R' is a hydrocarbyl radical or a heterocyclic ring with 5-7 atoms in the ring;

(VI) hydrocarbyl esters of polycarboxylic acids in which at least one carboxyl group is linked to an aromatic ring and at least one other is linked to a carbon atom of an aliphatic group or to a cycloaliphatic ring or at least two carboxyl groups are linked to an aromatic ring through an alkylene group;

(VII) esters of aromatic polycarboxylic acids containing at least two non-condensed aromatic rings, each of which bearing a carboxyl group;

(VIII) esters of carbonic acid with glycols and carbonic acid derivatives of formula RO-CO-Or' wherein R and R' are the same or different acyl groups with 1-20 carbon atoms;

(IX) esters of polyols and of monohydroxy-phenols;

(X) hydrocarbyl esters of acetylenic acids; the electron-donor compound being extractable from the solid for at least 70% by mols with Al -triethyl under standard measurement conditions, and the surface area of the solid subjected to extraction being higher than 20 m²/g, said component (b) is reacted in a molar ratio to the Ti compound of component (c) of at least 1 and in a molar ratio to component (a) lower than 20.

Compl. Specn. 24 pages.

Drgs. Nil

CLASS : 54

161722

Int. Cl. : A 23 n 1/00.

METHOD AND INSTALLATION FOR THE EXTRACTION OF NATURAL FLAVOUR OF PLANT PRODUCTS.

Applicant : COMPAGNIE FRANCAISE DE RAFFINAGE S.A., OF 5 RUE MICHAEL ANGE, 75781 PARIS CEDEX 16, FRANCE.

Inventors : (1) LOUTATY ROBEN and (2) ROLLAND CHRISTIAN.

Application No. 1137/Cal/83 filed September 17, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

A method for the extraction of natural flavours of plant origin, in particular, fruits, vegetables, seeds or aromatic plants, wherein organoleptic properties are retained characterised in that the plant products are reduced to a fine slurry containing the flavour and the pectins.

- to said slurry a solvent such as herein defined is added, which, when heated, forms with water a heterogeneous and azeotropic mixture, having a boiling point below the stability limit temperature of the principal essences constituting the flavour.
- the slurry is heated in a reactor at the boiling point of the azeotropic mixture.
- the vapours are condensed in a separate vessel.
- the condensate obtained is decanted so as to separate the water and the solvent, said solvent recycled to the reactor.
- the distillation is stopped at the moment when the temperature in the reactor suddenly rises and becomes clearly higher than the boiling point of the azeotropic mixture.

2-427 GT/87

the mixture remaining in the reactor is then filtered in order to separate the solid matter from the solvent containing the flavour, and

the flavour is isolated from the solvent by any appropriate method, and, if desired, the solid matter derived from the foregoing extraction is subjected to further extraction with same solvents as for initial extraction or other solvents, such as herein defined, which form azeotropic but homogeneous mixture with water e.g.

- (a) alcohols, such as ethanol, isopropanol or isobutanol.
- (b) ketones, such as methyl-ethyl ketone, methylisopropyl ketone.

Compl. Specn. 17 pages.

Drgs 3 sheets.

CLASS : 69Q.

161723

Int. Cl. : H 01 r 39/60.

VACUUM INTERRUPTER ELECTRICAL CONTACTS.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor : SIDNEY JOHN CHERRY.

Application No. 1229/Cal/83 filed October 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A vacuum interrupter electrical contact which comprises predominantly copper and a minor amount of a selected refractory metal such as herein described characterised in that copper is in the form of dispersion-strengthened copper being dispersed with a dispersing agent such as aluminium oxide or titanium dioxide.

Comp. Specn. 7 pages.

Drgs. 1

CLASS : 32F+40B.

161724

Int. Cl. : C 07 c 19/00.

B 01 j 11/00.

PROCESS FOR RECOVERING THE CATALYST AND RE-USE OF THE SAME IN THE CONTINUOUS PRODUCTION OF 1, 2-DICHLOROETHANE.

Applicant : HOECHST AKTIENGESELLSCHAFT, D 6230 FRANKFURT/MAIN 80 FEDERAL REPUBLIC OF GERMANY.

Inventors : (1) JOACHIM HUNDECK, (2) HARALD SCHOLZ (3) HANS HENNEN.

Application No. 1491/Cal/83 filed December 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

Process for recovering the catalyst and re-use of the same in the continuous production of 1, 2-dichloroethane v reacting ethylene with chlorine in 1, 2-dichloroethane as solvent in the presence of a catalyst consisting of anhydrous iron (III) chloride and a nitrogen base selected from NH₃, a primary, secondary or tertiary alkyl, aralkyl, aryl or alicyclic amine or polyamine or a salt of said base and, optionally oxygen or air as an agent inhibiting the formation of by-products at a temperature lower than the boiling point of 1, 2-dichloroethane of 20 to 100°C at atmospheric or increased pressure, and separating the 1, 2-dichlorethane from the reaction mixture, which comprises :

introducing the reaction mixture into a distilling zone, distillatively separating said 1, 2-dichloroethane from said mixture until the catalyst commences precipitating from liquid base product, separating said precipitated catalyst from said base product and recovering the catalyst so separated.

Comp. Specn. 10 pages..

Drg. Nil

CLASS : 4-A; 169-C.

161725

Int. Cl. B 64 d 7/00.

ARRANGEMENT IN A LOW-FLYING WEAPONS CARRIER COMPRISING A MANNED OR REMOTE CONTROL AIRCRAFT FOR COMBATTING GROUND TARGETS.

Applicant : MESSERSCHMITT-BOLKOW-BLOHM GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, OF D-8000 MUNICH 80, FEDERAL REPUBLIC OF GERMANY.

Inventor : 1. IGNAZ VON MAYDELI.

Application No. 62/Cal/84 filed January 30, 1984.

Appropriate office for opposition proceedings Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A system for combatting ground targets, embodied in a low-flying weapons carrier e.g. a manned or remote control aircraft said system comprising a weapon located in said weapon carrier, said weapon arranged to hold a plurality of ammunition members for attacking ground targets and said weapon having steeply downwardly directed ballistics, a release in said weapon carrier for said weapon, a target detector in said weapon carrier separate from said weapon and assigned to said release, said target detector being of relatively short reach which is directed steeply downwardly and parallel to the direction of the resulting velocity vector V_{res} of the ammunition members to be discharged from said weapon.

Comp. Specn. 14 pages

Drg. 2 sheets

Class. 67-D.

161726

Int. Cl. H04 r.3/00.

SOLID STATE CURRENT-TO-PRESSURE AND CURRENT-TO-MOTION TRANSDUCER.

Applicant : EDISON INTERNATIONAL, INC. OF 1701 GOLF ROAD, ROLLING MEADOWS, ILL 60008, UNITED STATES OF AMERICA.

Inventors : 1. ROBERT CLAUDE PRESCOTT, 2. CAIMAN NMN GOLD, 3. ERIC VINCENT ANDERSON.

Application No. 205/Cal/84 filed March 28, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A solid state current-to-pressure and current-to-motion transducer, comprising

a. current sensing means for sensing a current signal and producing a first output signal and for producing a plurality of constant voltages generally independent of the magnitude of said current signal;

b. pressure source means for providing a controlled pneumatic pressure whose magnitude varies in response to a control signal said pressure source means including :

(1) a supply of gas at a substantially constant pressure;

(2) a conduit having one end in flow communication with said supply and an outlet port at an opposite end;

(3) An exhaust valve in flow communication with said conduit, said valve including a fixed nozzle and an electrically movable flapper element which is adapted to cooperate with said nozzle in response to said control signal;

c. solid-state pressure sensing means, powered by said current sensing means, for sensing said controlled pneumatic pressure at said outlet port and for providing a second output signal proportional to the magnitude thereof; and

d. amplifier means, responsive to said current sensing means and to said pressure sensing means, for providing a control signal which varies in magnitude with the difference between said first output signal and said second output signal and which is adapted to drive said flapper element to reduce the magnitude of said difference, whereby a pneumatic pressure is produced at said outlet port which is characteristic of said current signal.

Comp. Specn. 42 pages.

Drg. 3 sheets

CLASS : 172-D₃

161727

Int. Cl. D01b 1/20, 7/04, 7/12.

MOUNTING DEVICE FOR THE BEARING BOX OF A SPINNING OR TWISTING SPINDLE BEARING IN THE SPINDLE RAIL OF A MACHINE.

Applicant : SKF KUGELLAGERFABRIKEN GMBH, of Ernst-Sachs-Strasse 2-8, D-8720 Schweinfurt 1, Federal Republic of Germany.

Inventor : BERNHARD FORTKORT.

Application No. 304/Cal/84 filed May 7, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims.

Mounting device for the bearing box of a spinning or twisting spindle bearing in the spindle rail of a machine, where the bearing box is held in an adjustable and lockable manner at two points situated at an axial distance from one another in a mounting sleeve surrounding them otherwise at a radial distance, which mounting sleeve in turn is fixed in the spindle rail by means of a flange and a nut screwed onto it (the sleeve), characterised in that the upper point (6) is constructed as a deformable shoulder (13) producing a press connection between the bearing box (1) and the mounting sleeve (8) fixed in a press fit and bridging its radial gap (14), and that the lower point (7) fixing the adjustment is formed by a locking shoulder (18) connected with the bearing box, which shoulder (18) is braced against the front surface of the mounting sleeve by means of a retaining nut (19) screwed upon the mounting sleeve and surrounding the locking shoulder with a radial gap.

Comp. Specn. 13 pages.

Drg. 2

Class 129-B0, G

161728

Int. Cl. B21c 37/00.

"APPARATUS FOR DRAWING ON TRANSVERSE RIBS"

Applicant : GEA LUFTKUHLERGESELLSCHAFT HAPPEL GMBH & CO. of No. 43-47, Konigsallee, 4630 Bochum, Federal Republic of Germany.

Inventor : 1. HEINRICH SCHULENBERG.

2. OTTO WISSE.

Application No. 104/Cal/85 filed Feb 12, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

An apparatus for drawing transverse ribs onto smooth tubes, which comprises a stamping machine with a drive for producing the transverse ribs and a drawing-on bench which carries the smooth tubes to be ribbed and which has a flight-attachment chain arrangement moved directly by the stamping-machine drive and comprising at least two continuously rotating flight-attachment chains which are arranged

at a distance next to one another and are guided at their ends via chain wheels and the flight attachment of which receive at the stamping rate of the stamping machine the transverse ribs from said machine and push them continuously in succession onto the smooth tubes in the longitudinal direction from the end face turned towards the stamping machine, wherein the flight-attachment chains are driven via the chain wheels which are located at the end of the drawing-on bench remote from the stamping machine.

Compl. Specn 11 pages. Drg. 1.

Class. 143-D4. 161729.

Int. Cl. B65b 1/00.

"PACKING UNIT FOR MASS-TRANSFER COLUMNS"

Applicant : VEREINIGTE FULIKORPER-FABRIKEN GMBH & CO., OF RHEinstrasse 176, D-5412 RANS-BACH BAUMBACH 2 FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. REINHARD KUHL.

Application No. 504/Cal/85 filed July 5 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

Packing unit for mass-transfer columns comprising a basic flat member with several parallel and adjacent slits terminating short of the border on each side; sections between ends and said slits and between the slits themselves bent out in opposing curves; said basic member comprising a plurality of adjacent strips, facing uncut borders between two adjacent strips being connected and their free borders being joined.

Compl. Specn 9 pages. Drg. 1 Sheet.

Class. 154-D, F, B. 161730.

Int. Cl. B41F 1/00.

"INTAGLIO PRINTING MACHINE"

Applicant : KOMORI PRINTING MACHINERY CO LTD. OF 11-1, AZUMABSHI 3-CHOME, SUMIDA-KU, TOKYO, JAPAN.

Inventors : 1. IEYASU ICHIKAWA.

2. SHIGEJI ARAI.

Application No. 581/Cal/85 filed August 07, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

An intaglio printing machine including a plate cylinder having plate means thereon, a pattern roller having projections which are in rolling contact with an outer surface of said plate means, and an inking unit with a ductroller which is in rolling contact with said pattern roller, characterised in that said duct roller has substantially the same diameter as a diameter of said pattern roller which includes said projections, and ink holding recesses having different depths corresponding to those of said plate means are formed in an outer surface of said duct roller along circumferential and axial directions thereof.

Compl. Specn. 19 pages.

Drg. 3 Sheet.

OPPOSITION PROCEEDINGS

The application for Patent No. 157826 made by Bajaj Auto Limited, Pune, India in respect of which opposition was entered by PIAGGIO & C.S.P.A. Italy as notified in the Gazette of India, Part III, Section 2 dated 10th January, 1987 has been treated as withdrawn.

PATENTS SEALED .

154715. 156421 156562 157470 157630 157668 157739 157758
158220 158293 158405 158413 158415 158421 158540 158556
158657 158658 158659 158670 158673 158687 158692 158733
158781 158815 158818 158821 158822 158952 158958 158959
158960 158961 158963 158964 158991 158993 159017 159025
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156124 156130 156131 156167 156168 156263 156264 156328
156330 156331 156347 156353 156379 156388 156411 156413
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157509 157554 157575 157604 157680 157690 157693 157727
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157887 157931

AMENDMENT PROCEEDINGS UNDER SECTION 57 of THE PATENTS ACT, 1970

(1)

Notice is hereby given that TI (Group Services) Limited, a British Company of TI House, Five Ways, Birmingham, England have made an Application under Section 57 of the Patents Act, 1970, for amendment of Application, Specification and Drawings of their Application for Patent No. 159504 for "Heat exchangers". The amendments are by way of changing name and address from TI (Group Services) Limited, a British Company of TI House, Five Ways, Birmingham, England to TI Corporate Services Limited, a British Company of 50 Curzon Street, London W1Y 7PN, Great Britain. The application for amendments and the proposed amendments can be inspected free of charge at the Patent Office, 234/4, Acharya Jagdish Bose Road, Calcutta-20 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a Notice of Opposition on prescribed Form-30 within 3 months from the date of this Notification at the Patent Office, Calcutta. If the Written Statement of Opposition is not filed with the Notice of Opposition, it shall be left within one month from the date of filing the said Notice.

(2)

Notice is hereby given that Mitsubishi Denki Kabushiki Kaisa, of 2-3, Marunouchi 2-Chome, Chiyoda-Ku, Tokyo, Japan, a Japanese Company have made an application under Section 57 of the Patents Act, 1970 for amendment of specification of their application for Patent No. 151775 for "Lighting arrester". The amendments are by way of disclaimer. The application for amendment and the proposed amendments can be inspected free of charge at Patent Office, 234/4, Acharya Jagdish Bose Road, Calcutta-700017 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

RENEWAL FEES PAID

140868 140867 143171 143181 143334 143464 144180 144629
 144686 144933 145115 145293 145570 145814 145866 146150
 146196 146393 146554 147172 147317 147553 147588 148898
 149207 149220 149389 149448 149798 150281 150295 150303
 150342 150359 150412 150802 150947 151380 151580 151600
 151743 151787 151789 151836 151909 151913 152122 152152
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 158228 158230 158232 158273 158386 158665 158666 158668
 158679 158680 158681 158684 158685 158704 158705 158707
 158729 158772 158773 158792.

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class. 1. No. 158543. Bajaj Auto Limited, of Akurdi, Pune-411035, Maharashtra, India, an Indian Company, "Motor Scooter". 16th July, 1987.

Class. 3. Nos. 158507, 158508. Gurbachans Electronics & Electricals, Post Box No. 17, Church Road, Dimapur-797 112, Nagaland, India-An Indian Company. "Transistor Radio". 8th July, 1987.

Class. 3. Nos. 158509, 158510. Gurbachans Electronics & Electricals, Post Box No. 17 Church Road, Dimapur 797 112 Nagaland, India-An Indian Company. "Tape Recorder". 8th July, 1987.

Class. 3. No. 158527. Modern Home Care Products Ltd., 4, Community Centre, New Friends Colony, New Delhi-110065, India, an Indian Company. "Air Freshner". 13th July, 1987.

Class. 3. No. 158544. Bajaj Auto Limited, of Akurdi, Pune-411033, Maharashtra, India an Indian Company "Motor Scooter". 16th July, 1987.

Class. 3. No. 158567. Atam Prakash, P-10A, Jangpura Extension, New Delhi-110014, India, an Indian National "Electric Lamps". 21st July, 1987.

Class. 3. No. 158588. Nagpal Electronics-A-11 Community Centre, Naraina, New Delhi-110028 an Indian Partnership concern. "a Radio". 29th July, 1987.

Class. 4. No. 158526. National Industrial Corporation Ltd. (Unit : Ajudhia Distillery), a company registered under the Companies Act, 1956, Flat No. 8, Khan Market, New Delhi-110003, India, "Bottle". 13th July, 1987.

Class. 10. No. 158595. Kay Vee Footwear, C-181, Naraina Industrial Area, Phase-I, New Delhi, India, an Indian Partnership firm. "Shoe". 31st July, 1987.

Extn. of Copyright for the Second period of five years.

Nos. 153521, 153205. Class-1.

Nos. 152082, 153911, 153912, 153206.... Class-3.

No. 152012. Class-4.

No. 152575. Class-10.

Extn. of Copyright for the Third period of five years.

Nos. 153911, 153912, 153206. Class-3.

No. 153205. Class-1.

Name indexes of Applicants for Patents for the month of October, 1987 (Nos. 773|Cal|87 to 850|Cal|87, 308|Bom|87 to 334|Bom|87, 706|Mas|87 to 787|Mas|87 and 864|Del|87 to 951|Del|87).

Name _____ Appln. No. _____

"A"

A. H. Robins Company, Incorporated—783/Cal/87, 784/Cal/87, 781/Mas 87.

ASEA STAB AB.—771/Mas/87, 866/Del/87.

Albert Pariente Cohen—780/Cal/87.

Albright & Wilson Limited—892/Del/87.

Alcan International Ltd.—879/Del/87, 890/Del/87.

Allied Corporation—894/Del/87.

Aluminium Pechincy—814/Cal/87.

American Cyanamid Co.—778/Cal/87, 806/Cal/87, 845/Cal/87.

American Telephone & Telegraph Company—770/Mas/87.

Amoco Corporation—875/Del/87, 931/Del/87.

Ammonia Casale S.A.—734/Mas/87.

Asta Pharma Aktiengesellschaft—837/Cal/87.

Atochem—775/Mas/87.

"B"

BASF Aktiengesellschaft—736/Mas/87, 750/Mas/87.

BBC Brown Boveri AG.—717/Mas/87, 738/Mas/87, 756/Mas/87, 768/Mas/87.

B. F. Goodrich Company, The—950/Del/87.

B. W. N. Vortoil Pty. Ltd.—948/Del/87.

Babcock & Wilcox Co., The 841/Cal/87.

Balsara, A.R.—334/Bom/87.

Bang, R.S.—315/Bom/87.

Basu, D.—928/Del/87.

Bergwerksverband GmbH.—934/Del/87.

Name	Appn. No.	Name	Appn. No.
"J"			"E"
Berol Suisse SA.—748/Mas/87, 749/Mas/87.			E. I. Du Pont Du Nemours and Company—790/Cal/87, 812/Cal/87, 813/Cal/87, 840/Cal/87.
Bespak Plc.—767/Mas/87.			Earl Bihar Pvt. Ltd.—329/Bom/87, 330/Bom/87, 331/Bom/87, 332/Bom/87.
Bharat Heavy Electricals Limited—949/Del/87.			Edward L. Bateman Ltd.—759/Mas/87.
Bhide, P.G.—328/Bom/87.			Electric Power Research Institute, Inc.—810/Cal/87.
Birendra, D.B.—795/Cal/87.			Emmett, R.—873/Del/87.
Biswas, P.—799/Cal/87.			Energie Froide International S. A.—830/Cal/87.
Biswas, S.—827/Cal/87.			Energy Conversion Devices, Inc.—884/Del/87.
Biagoveschensky Gosudarstvenny Meditsinsky Institut.—936/Del/87.			Engelhard Corporation—818/Cal/87.
Blaise Francois Fignereo—938/Del/87.			English Electric Company of India Limited, The—753/Mas/87.
Bose, J.—822/Cal/87.			Engotec A/S.—893/Del/87.
"C"			Enzyma Bio-systems Ltd.—776/Mas/87.
C. R. Bard, Inc.—924/Del/87, 926/Del/87.			Extel Corporation—731/Mas/87.
Callahor Limited—719/Mas/87.			"F"
Cambrian Engineering Group Limited, The—945/Del/87.			Facet Enterprises Inc.—932/Del/87.
Carbon Resources, Inc.—878/Del/87.			Fartel Bridge Limited—867/Del/87.
Carrier Corporation—792/Cal/87.			Farrel Corporation—887/Del/87, 888/Del/87.
Caroma Industries Ltd.—816/Cal/87.			Fidia, S.p.A.—787/Cal/87.
Carroll, N.—777/Cal/87.			Four Eyes Research Pvt. Ltd.—310/Bom/87.
Central Sericultural Research and Training Institute—743/Mas/87.			Freudenberg, C.—728/Mas/87, 729/Mas/87, 730/Mas/887.
"G"			Fujikura Limited—825/Cal/87.
Chevron Research Co.—707/Mas/87.			
Chuang, V.—788/Cal/87.			
Chuang, W. C.—788/Cal/87.			General Electric Company—807/Cal/87.
Ciba-Geigy AG.—786/Mas/87.			Georg Fischer Ag.—791/Cal/87, 815/Cal/87.
Cincinnati Milacron Inc.—817/Cal/87.			Guha, S.K.—895/Del/87.
Clear Plastics Pvt. Ltd.—311/Bom/87.			Gujarat State Fertilizers Co. Ltd.—309/Bom/87.
Colgate/Palmolive Company—920/Del/87.			Gullick Dobson Ltd.—714/Mas/87.
Compagnie De Reffinage Et De Distribution Total Frances S. A.—826/Cal/87.			Gupta, A.—886/Del/87.
Council of Scientific and Industrial Research—881/Del/87, 882/Del/87, 883/Del/87, 891/Del/87, 906/Del/87, 921/Del/87, 922/Del/87, 923/Del/87.			Gupta, A.K.—313/Bom/87.
Crane Packing Ltd.—904/Del/87.			"H"
"D"			Heinz Schaaf Nahrungsmittel-Extrusionstechnik—927/Del/87.
Dabbaj, R.H.—846/Cal/87.			Henkef Kommanditgesellschaft auf Aktien—764/Mas/87.
Deutsches Aussatzigen-Hilfswerk e.V.—732/Mas/87.			Hindustan Lever Ltd.—308/Bom/87.
Dorr-Oliver Incorporated—951/Del/87.			Hirano, H.—831/Cal/87.
Dunlop-CCT s.a.—776/Cal/87.			Hirayama, H.—831/Cal/87.
Du Pont Canada Inc.—802/Cal/87.			Hitachi Ltd.—785/Cal/87.
Dyneema V. O. F.—760/Mas/87.			Hoechst—801/Cal/87.
DYno Industries A/s.—868/Del/87.			Aktiengesellschaft—820/Cal/87, 706/Mas/87, 735/Mas/87, 737/Mas/87.
			Hoechst Celanese Corporation—838/Cal/87.
			Hoechst India Ltd.—312/Bom/87, 327/Bom/87

Name	Appln. No.	Name	Appln. No.
"H"			
Hoeganaes Corporation—804/Cal/87.		Martin Engineering Co.—783/Mas/87.	
Honda Giken Gogyo—914/Del/87.		Martin Marietta Corporation—908/Del/87.	
Honda Giken Kogyo Kabushiki Kaisha—914/Del/87.		Maschinenfabrik Rieter AG.—740/Mas/87, 741/Mas/87.	
Huang, C. S.—788/Cal/87.		McConway & Torley Corporation—811/Cal/87.	
"I"			
Imperial Chemical Industries Plc.—913/Del/87, 933/Del/87.		McCormick & Company—842/Cal/87.	
Imhoff, A.—872/Del/87, 918/Del/87.		Melander, S.—937/Del/87.	
Insti ut Francais Du Petrole—751/Mas/87.		Merck Patent Gesellschaft Mit Beschränkter Haftung—824/Cat/87.	
Institute PO Tchenna Metalurgia—758/Mas/87.		Merlin Gerin.—787/Mas/87.	
Isa, S.—831/Cal/87.		Minnesota Mining and Manufacturing Company—773/Mas/87.	
"J"			
Jacques Lactroix—947/Del/87.		Mississippi Chemical Corporation—769/Mas/87.	
Jaromir Vaclav Drasil—782/Mas/87.		Moghe V. Y.—316/Bom/87.	
Jungmans Uhren GMB—876/Del/87.		Molins PLC—784/Mas/87.	
"K"			
K. F. Engineering Co. Ltd.—779/Cal/87.		Monroe Auto Equipment Company—848/Cal/87.	
KMK Karl Maegerle—715/Mas/87.		Montedipe S.p.A.—850/Cal/87.	
Lizens AG.—716/Mas/87.		Mull, V.—943/Del/87, 944/Del/87.	
Kabushik Kaisha Nisshin Seisakusho—847/Cal/87.		"N"	
Kantawala, A. K.—320/Bom/87, 321/Bom/87.		NGK Insulators, Ltd.—836/Cal/87.	
Kelsey Hayes Company—798/Cal/87, 823/Cal/87.		National Canvas Co.—869/Del/87.	
Khebulkar, A. M.—333/Bom/87.		National Council for Cement and Building Materials—897/Del/87, 898/Del/87, 899/Del/87, 900/Del/87, 901/Del/87.	
Kienlein, K.—844/Cal/87.		National Research—916/Del/87.	
Kimberly-Clark Corporation—752/Mas/87.		Development Corporation of India—917/Del/87.	
Kumar, P.—874/Del/87.		Neutralysis Industries Pty. Ltd.—773/Cal/87.	
Kumar, R.—902/Del/87.		Nippon Dacro Shamrock Co. Ltd.—723/Mas/87.	
Kumaran, E. (Capt.)—747/Mas/87.		Nobel Chematur—929/Del/87.	
Kureara, R. L.—829/Cal/87.		Normalair-Carratt (Holdings) Ltd.—725/Mas/87.	
"L"			
Lindauer Dornier Gesellschaft M.B.H.—782/Cal/87.		"O"	
London Laboratories Ltd.—733/Mas/87.		OBGEL.—832/Cal/87.	
Lubrizol Corporation, The—909/Del/87.		Oil & Natural Gas Commission—864/Del/87.	
Lucas Industries Public Limited Company—727/Mas/87.		"P"	
"M"			
Maheeshwary, M.—765/Mas/87.		PKL Verpackungs systeme GmbH—793/Cal/87.	
Mannesmann Aktiengesellschaft—718/Mas/87.		PPC Industries, Inc.—870/Del/87.	
Maritime hydraulics A.S.—763/Mas/87.		Paramount Sinters Pvt. Ltd.—322/Bom/87.	
		Parhate, S. B.—314/Bom/87.	
		Parikh, R. A.—325/Bom/87.	
		Parsons Chain Company Limited—915/Del/87.	
		Pathah, B. K.—796/Cal/87.	
		Peddinghaus, R.—843/Cal/87.	

Name	Appln. No.	Name	Appln. No.
	"P"	Societe Des Electrodes & Refractaires Savoie (SERS).—779/Mas/87.	
Pennwalt Corporation—819/Cal/87.		Societe Des Produits Nestle S.A.—708/Mas/87.	
Pfizer Inc.—885/Del/87, 905/Del/87 & 939/Del/87.		Soletanche—925/Del/87.	
Phillips Petroleum Company—786/Cal/87, 839/Cal/87.		Solvay & Cie.—912/Del/87.	
Photon Energy, Inc.—880/Del/87.			
Plessey Overseas Limited—742/Mas/87, 744/Mas/87.		Spetsialnoe Konstrukterasko-Tekhnologicheskoe Bjuro Kompressornogo I Kholodilnogo Mashino-Stroenia-Proizvodstvennoy Obiedineniya "Odeskholodmash".—849/Cal/87.	
Pumptech N. V.—724/Mas/87, 772/Mas/87.		Srinivasan, K.S.—726/Mas/87.	
	"R"	Stamicarbon B.V.—761/Mas/87, 762/Mas/87.	
R. J. Reynolds Tobacco Company—808/Cal/87, 809/Cal/87.		Stauffer Chemical Company—745/Mas/87.	
Rangachary, K.A.—780/Mas/87.		Steelsworth Pvt. Ltd.—789/Cal/87.	
Rao, A.K.—794/Cal/87.		Sterimatic holding limited—766/Mas/87.	
Rao, G. M.—774/Mas/87.		Sukhdani, V.M.—323/Bom/87.	
Rohm and Haas Company—903/Del/87.		Sundaram E.R.B. (Miss)—755/Mas/87.	
	"T"		
	"S"	Tanksale, S.D.—319/Bom/87.	
SMS Schloemann-Siemag Aktiengesellschaft—778/Mas/87.		Taprogge Gesellschaft mbH.—777/Mas/87.	
Senden Corporation—871/Del/87.		Thirupathy, V.V.T.—720/Mas/87.	
Santa Barbara Research, Centre—935/Del/87.		Touzani, W.—877/Del/87.	
Sathyanathan, C. (Mrs.)—726/Mas/87.		Toyo Engineering Corporation—907/Del/87.	
Schlumberget Industries—722/Mas/87.		Tremco Incorporated—930/Del/87.	
Schutz-Kerke GMBH & CO. KG.—739/Mas/87.			"U"
Seaglider Concept S.A.—896/Del/87.		UOP Inc.—940/Del/87.	
Sekhar Sundaram, E.R.B.—754/Mas/87, 755/Mas/87.		Uhde GmbH.—735/Mas/87.	
Sen, M. (Dr.)—821/Cal/87, 828/Cal/87.		Union Carbide Corporation—757/Mas/87, 889/Del/87.	
Shah, C.S.—317/Bom/87.		United Corrosion Consultants Ltd.—802/Cal/87.	
Shankar Sundaram E.R.B. (Dr.)—754/Mas/87, 755/Mas/87.		Union Steel Corporation of South Africa Limited, The—759/Mas/87.	
Shanmugasundaram, E.R.B. (Dr.) (Prof.)—754/Mas/87, 755/Mas/87.		Valera, R. L.—326/Bom/87.	
Shell Internationale Research Maatschappij B.—919/Del/87.		Valte, R.—333/Bom/87.	
Shree Krishnakeshav Laboratories Ltd.—943/Del/87 & 944/Del/87.		Vijayan, T.A.—785/Mas/87.	
Siemens Aktiengesellschaft.—775/Cal/87, 781/Cal/87 & 803/Cal/87.		Voest-Alpine—910/Del/87.	
Signam Limited—800/Cal/87.		Aktiengesellschaft—911/Deffl/87.	
Sir Padampat Research Centre—865/Del/87.			
Societe Chimique Des—941/Del/87.		Vsesojuzny Nauchno-Issledovatel'sky I Proektny Institut Al'juminiyevoi, Magnieveoi I Elektrrodnoi Promyshlennosti—774/Cal/87.	
Charbonnages S.A.—942/Del/87.			

Name	Appln. No.	Name	Appln. No.
Vseosoznny Nauchno-Issledovatelsky Proektnokonstruktorsky I Tekhnologichesky Institut Elektrotermicheskogo Obrudova- vania (Vniieito)—797/Cal/87.			"Z"
	"W"	Zabrazanskie Gwarectwo Weglowe Kopalnia Wagla Kamien- nego Zabrade-Bielzowice—946/Del/87.	
WNC-Nitrochemie GmbH.—805/Cal/87.		Zardi, U.—734/Mas/87.	
Walmaley, O.—873/Del/87.		Zellweger Uster AG.—709/Mas/87, 710/Mas/87, 711/ Mas/87, 712/Mas/87, 713/Mas/87.	
Wagh, R.P.—333/Bom/87.		Zinser Textilmaschinen GMBH.—324/Mas/87.	
Wehtje, A.—937/Del/87.			
Wells, A.A.—746/Mas/87.			
Westinghouse Electric Corporation—833/Cal/87, 834/Cal/ 87, 835/Cal/87.			
Yelgukar, Y.C.—318/Bom/87.	"Y"		

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